

Soyacerebroside I Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Soyacerebroside I

Catalog No.: CFN99242

Cas No.: 114297-20-0

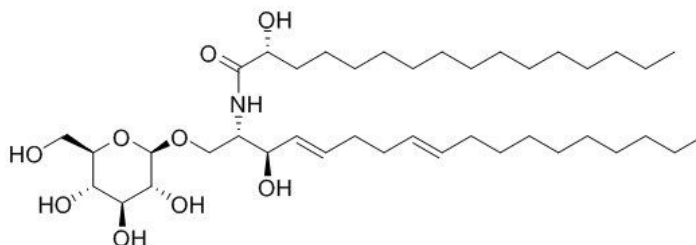
Purity: > 95%

M.F: C₄₀H₇₅NO₉

M.W: 714.0

Physical Description: Powder

Synonyms: (2R)-2-hydroxy-N-[(3R,4E,8E)-3-hydroxy-1-[(2S,3R,4S,5S,6R)-3,4,5-trihydroxy-6-(hydroxymethyl)oxan-2-yl]oxyoctadeca-4,8-dien-2-yl]hexadecanamide.



[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Synthetic precursor compounds;
4. Intermediates & Fine Chemicals;
5. Others.

[Source]

The fruits of *Glycine max*.

[Biological Activity or Inhibitors]

Soyacerebroside I demonstrates a potent tyrosinase inhibitory activity.^[1]

Soyacerebroside I shows anti-inflammatory activity, it can inhibit the accumulation of pro-inflammatory iNOS protein and reduce the expression of COX-2 protein in LPS-stimulated RAW264.7 macrophages.^[2]

Soyacerebroside I and II have modulating the cellular immune response effects, they show obvious inhibitory activity on IL-18 secretion in human peripheral blood mononuclear cells (PBMC).^[3]

[Solvent]

Pyridine, DMSO.

[HPLC Method]^[4]

Mobile phase: 1% Acetic acid in water- Acetonitrile, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 248 nm.

[Storage]

2-8°C, Protected from air and light, refrigerate or freeze.

[References]

[1] Magid A A, Voutquenne-Nazabadioko L, Bontemps G, *et al. Planta Med.*,2008 Jan; 74(1):55-60.

[2] Chiu C P, Liu S C, Tang C H, *et al. J. Agric. Food Chem.*,2016 Feb 24;64(7):1540-8.

[3] Zhou X, Lan T, Liu Y. *Lipids*, 2009 Aug;44(8):759-63.

[4] Li W L, Sun Z, Cheng B, *et al. Guang Pu Xue Yu Guang Pu Fen Xi.* 2008 Aug;28(8): 1914-8.

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